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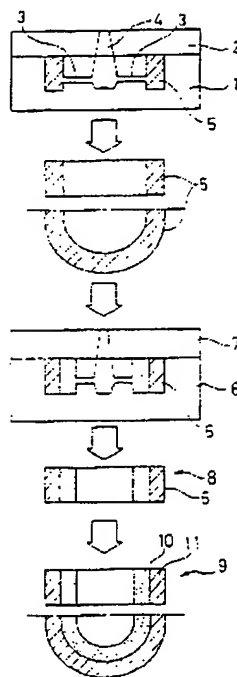
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TITLE : COMBINED SINTERED PRODUCT



ABSTRACT : PURPOSE: To easily manufacture a combined sintered product having three dimensional shape with different metals by setting a green compact in a metallic mold after injection-forming a kneaded material of hard quality powder and binder into the desirable shape, making combined green compact of a kneaded material of different kind of metal powder and binder and executing debinder treatment and sintering after injection-forming.

CONSTITUTION: For example, Co powder as bonding material at the time of sintering is mixed to WC powder having super hard quality and polybutene, etc., and the binder is blended to this mixed powder, and after injection-forming this into cavity formed with the upper and lower metallic molds 1, 2, the metallic molds 1, 2 are removed, and further, gates 3 and a sprue 4 in the green compact 5 are removed. This green compact 5 is set in the other metallic molds 6, 7 and the kneaded material of Co alloy powder and binder are injection- formed to make the combined green compact 8 and this is taken out from the metallic molds 6, 7, and after heating and removing the binder in the combined green compact 8, this is sintered under vacuum and the three dimensional shape of combined sintered product 9 composed of WC series outer layer 11 and Fe-Co series inner layer 10 is obtd.

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